

**REMARKS**

Claims 1-17, 19-36 and 38-73 are pending. Claims 1, 3, 5-8, 10, 11, 15-17, 20-22, 24-27, 29, 38, 40, 41, 51, and 52 have been amended in this response. Claims 18 and 37 have been cancelled without prejudice, waiver, or disclaimer. New claims 61-73 have been added. No new matter is believed to be added by these amendments and new claims. In addition, unless a passage of an amendment is specifically discussed below in connection with one or more cited references, Applicants respectfully submit that the amendments to the claims should be constructed as being submitted merely to clarify the invention rather than as a limitation submitted to overcome a cited reference.

A. **Claim Objections**

The Examiner objected to Claims 3, 5, 8, 11, 15-17, 19, 22, 24-27, 29, 40, 41, 51 and 52 to typographically incorrect antecedent errors. In response, Applicants have amended the subject claims to correct the antecedent errors. Thus, as amended, Claims 3, 5, 8, 11, 15-17, 19, 22, 24-27, 29, 40, 41, 51 and 52 should be in condition for allowance.

B. **Claim Rejections under 35 USC §112**

The Examiner rejected Claims 6, 7, 25 and 26 as being indefinite. In response, Applicants have amended the subject claims to note that the step of applying the genetic algorithm is defined in the respective dependent claims parent independent claim. As amended, Claims 6, 7, 25 and 26 read as follows:

6. The method of claim 1, wherein the step of applying the genetic algorithm generates at least one of optimized load placement and optimized load values for the antenna configuration.

7. The method of claim 1, wherein the step of applying the genetic algorithm generates optimized design parameters of a matching network or balun to be connected to the antenna.

25. The system of claim 20, wherein the means for applying the genetic algorithm generates at least one of optimized load placement and optimized load values for the antenna configuration.

26. The system of claim 20, wherein the means for applying the genetic algorithm generates optimized design parameters for a matching network or balun to be connected to the antenna.

As currently amended, Claims 6, 7, 25 and 26 should be condition for allowance.

C. Allowable Subject Matter

Applicants thank the Examiner for the indicated allowability of Claims 39-60 and the indicated allowability of dependent Claims 7, 11-15, 17-19 and 31-38. Accordingly, Applicants have amended independent Claim 1 to include the subject matter of allowable Claim 18. Applicants have amended independent Claim 20 to include the subject matter of allowable Claim 37. Therefore, currently amended independent Claims 1 and 20 and the dependent claims that depend therefrom are in condition for allowance.

D. New Claims

Applicants have added new claims 61-73. New independent claim 61 includes the subject matter of allowable Claim 7 and the base claim 1. Further, new independent claim 62 includes the subject matter of allowable Claim 11 and the base claim 1. Also, new independent claim 63 includes the subject matter of allowable Claim 12 and the base claim 1. Next, new independent claim 64 includes the subject matter of allowable Claim 13 and the base claim 1. Also, new independent claim 65 includes the subject matter of allowable Claim 14 and the base claim 1. New independent claim 66 includes the subject matter of allowable Claim 15 and the base claim 1. New independent claim 67 includes the subject matter of allowable Claim 17 and the base claim 1.

Further, new independent Claim 68 includes the subject matter of allowable Claim 31 and the base claim 20. Also, new independent Claim 69 includes the subject matter of allowable Claim 32 and the base claim 20. Next, new independent Claim 70 includes the subject matter of allowable Claim 33 and the base claim 20. In addition, new independent Claim 71 includes the subject matter of allowable Claim 34 and the base claim 20. Still

further, new independent Claim 72 includes the subject matter of allowable Claim 35 and the base claim 20. Also, new independent Claim 73 includes the subject matter of allowable Claim 36 and the base claim 20. Thus, new independent claims 61-73 should be in condition for allowance.

Therefore, Applicants respectively request allowance of all the outstanding claims. The Examiner is invited and encouraged to contact directly the undersigned if such contact may enhance the efficient prosecution of this application to issue.

Credit Card Authorization form PTO-2038 in the amount of \$3,620.00 (for a three-month extension of time (\$1,020.00) and for thirteen new independent claims (\$2,600.00)) is enclosed. No additional fees are believed to be due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

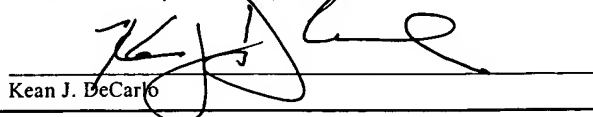


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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence and the documents mentioned therein are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 29, 2006.



Kean J. DeCarlo

6/29/2006  
Date